

A Final Report
Grant No. NAG 2-872

August 15, 1993 - February 28, 1994

FINAL
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1993 INTERNATIONAL SEMICONDUCTOR DEVICE
RESEARCH SYMPOSIUM (ISDRS-93)

Submitted to:

National Aeronautics and Space Administration
Ames Research Center
Moffett Field, CA 94035-1000

Attention:

Dr. James O. Larimer
Computational Human Engineering Research Office, 262-2

Submitted by:

Michael Shur
John Marshall Money Professor

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April 1994

DEPARTMENT OF ELECTRICAL ENGINEERING

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SCHOOL OF

ENGINEERING 
& APPLIED SCIENCE

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Charlottesville, VA 22903

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Charlottesville, VA 22903-2442

1993 Second International Semiconductor Device Research Symposium (ISDRS'93)

Final Report

The goal of this second biannual international meeting was to provide a congenial forum for the exchange of information and new ideas for researchers from university, industry and government laboratories in the field of semiconductor devices and device physics. To this end, we have an unusually short period between the submission of papers and the conference, a speedy publication of the proceedings, poster sessions, panel discussions, and a wide dissemination of the conference proceedings. Our other goal is to make this conference truly international. To achieve this, the symposium has sub-committees in Asia, Europe and the former Soviet Union. This conference is organized in cooperation with the IEEE MTT Society, the European Physical Society, the United States National Committee of URSI and the Russian Physical Society. Generous financial support has been provided by the Army Research Office, the Office of Naval Research, the NASA Ames Research Center and the Soros International Science Foundation.

The program committee received submissions from 21 countries, representing 4 continents. Of the submitted papers, 140 were selected for oral presentations and about 90 for poster presentations. These papers cover a broad range of topics, including novel and ultrasmall devices, photonics and

optoelectronics, heterostructure and cryogenic devices, wide band gap semiconductors, thin film transistors, MOSFET technology and devices, carrier transport phenomena, materials and device characterization, simulation and modeling. It is hoped that such a broad range of topics will foster a cross-fertilization of the different fields related to semiconductor materials and devices.

Nearly 300 participants were in attendance. Four panel discussions which included internationally recognized leaders in semiconductor device physics took place. The published Proceedings (892 pages) were distributed to the participants and sent to leading researchers working in this field. Guidelines were established for the rotation of the replacement of the Program Committee members on a regular basis with one year terms for the Conference Co-Chairs and Program Committee Chairs. Co-chairs were elected for the first time, allowing for one international and one local chair.

The Organizing Committee now has about 35 members, and more officers than in the past. New officers are Robert Weikle (Treasurer), William Peatman (Local Arrangements), Holly Slade (Secretary), and Stephen Jones (Program) from the University of Virginia. Also elected were Michael Spencer (Publicity) from Howard University, and Elias Towe, University of Virginia, and Fredrico Capasso, AT&T Bell Labs (Conference Co-Chairs).

The 1995 Third International Semiconductor Device Research
Symposium (ISDRS'95) will be held in Charlottesville, December 4-8, 1995.

Michael Shur, ISDRS-93 Chair

Elias Towe, ISDRS-93 Program Committee Chair

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